

# Meerkat<sup>TM</sup>

## An Edge IIoT Gateway



Our Edge IIoT Gateway **Meerkat**. We redesign & reimagine IIoT so that you remain the same !

### PRODUCT FEATURES (OPERATING CONDITIONS: 24VDC/VAC, -20 DEG. TO 85 DEG. CELSIUS)

<b>Processor &amp; System Configuration</b>	<ul style="list-style-type: none"> <li>• CPU : ESP32-S3 (FCC, CE Certified)</li> <li>• Flash Memory: 8 MB</li> <li>• RAM: 8 MB</li> </ul>	1 1 1
<b>Serial Ports</b>	<ul style="list-style-type: none"> <li>• RS-485 (2.75 kV Isolation)</li> <li>• RS-232 (2.75 kV Isolation)</li> <li>• CAN 2.0 (2 kV Isolation)</li> <li>• Ethernet (10/100 Mbps)</li> <li>• USB-Type C (Firmware Upgrade)</li> <li>• USB 2.0 -Type A FS OTG (500mA output)</li> <li>• Open Drain Optically Isolated Digital Inputs (GPIO)</li> <li>• Open Drain Optically Isolated Digital Outputs (GPIO)</li> <li>• On-board SD Card for local data store</li> </ul>	2 1 1 1 1 1 4 4 1
<b>Wireless Radio</b>	<ul style="list-style-type: none"> <li>• WIFI (802.11 b/g/n/LR WIFI Radio)</li> <li>• BLE (BLE 5.0 Radio)</li> <li>• Cellular (1 SIM Card Slot with 2G/3G/4G LTE via mPCIe card)</li> </ul>	1 1 1
<b>Software &amp; OS</b>	<ul style="list-style-type: none"> <li>• OS - freeRTOS</li> <li>• Protocol Support &amp; pre-compiled libs for MQTTs (Secure MQTT), HTTPs, Modbus RTU/TCP, BACnet IP &amp; BACnet MSTP, OPC-UA, DLMS-COSEM, CAN &amp; CANopen, OCPP &amp; Ethernet IP (In Development)</li> <li>• Secure Remote Over the Air Update (OTA) for Firmware Upgrades</li> <li>• Python based Config UI for settings</li> </ul>	
<b>Security</b>	<ul style="list-style-type: none"> <li>• Secure Boot Enabled</li> <li>• Encrypted executable code with device specific random key for code protection at rest</li> <li>• Data Encryption with device specific key</li> <li>• Encrypted key store protected against unauthorized read, including side loading of firmware with support for TLS 1.2/1.3</li> </ul>	